#### Sheet 1 of 5

Substitute for form 1449/PTO, based on PTO/SB/08A and 08B

### THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

<b>O</b> 1100t 1 01 0	
Application Number	10/556,804
Filing Date	January 18, 2006
First Named Inventor	Luke Alphey
Art Unit	1619
Examiner Name	Shanon A. Foley
Attorney Docket Number	129-05

Confirmation No. 1467

GS 03/25/2011

### **U.S. PATENT DOCUMENTS**

Examiner Initial*	Cite No.	Patent Number	Issue Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
/S.F./	1	5,851,796	12/22/1998	Schatz	
/S.F./	2	6,200,800	03-13-2001	Choulika et al.	
/S.F./	3	6,962,810	11-08-2005	Fraser et al.	

#### **U.S. PATENT APPLICATION PUBLICATIONS**

Examiner Initial*	Cite No.	Publication Number	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
/S.F./	4	2003/0213005	11-13-2003	Alphey et al.	
2500	5	2003/0150007	08-07-2003	Savakis et al.	
90000	6	2004/0082032	04-29-2004	Bovi et al.	
- Company	7	2005/0221430	10-06-1995	Prentice	
90000	8	2006/0212949	09-21-2006	Alphey	
00000	9	2006/0242717	10-26-2006	Alphey	
90000	10	2007/0056051	03-08-2007	Alphey	
W	11	2008/0115233	05-15-2008	Alphey et al.	
*	12	2009/0170793	07-02-2009	Gaur	
/S.F./	13	2009/0183269	07-16-2009	Alphey	

#### **FOREIGN PATENT DOCUMENTS**

Examiner Initial*	Cite No.	Foreign Document Number	Country Code	Publication Date (MM-DD-YYYY)	Name	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
/S.F./	14	1996/24605	WO	08-15-1996	Ryner et al.		
ă	15	1998/008960	WO	03-05-1998	Amutan et al.		
0000	16	0955364	EP	11-10-1999	Savakis et al.		
000	17	2000/073510	WO	12-07-2000	Bessereau et al.		
000000	18	2001/59088	WO	08-16-2001	Chernajovsky et al.		
0000	19	2001/091802	WO	12-06-2001	Aguilar-Cordova		
2000	20	2002/046444	WO	06-13-2002	Goryshin et al.		
200	21	2002/101061	WO	12-19-2002	Perez et al.		
2000	22	2004/044150	WO	05-27-2004	Horn et al.		
99999	23	2004/098278	WO	11-18-2004	Alphey		
	24	2005/003364	WO	01-13-2005	Alphey		
*	25	2005/012534	WO	02-10-2005	Alphey		
/S.F./	26	2007/091099	WO	08-16-2007	Alphey		

Examiner /Shanon Foley/	Date Considered	04/09/2011
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<sup>&</sup>lt;sup>2</sup>Applicant is to place a check mark here or "x" if English language Translation is attached.

#### Sheet 2 of 5

Substitute for form 1449/PTO, based on PTO/SB/08A and 08B	Application Number	10/556,804
	Filing Date	January 18, 2006
THIRD SUPPLEMENTAL	First Named Inventor	Luke Alphey
INFORMATION DISCLOSURE	Art Unit	1619
STATEMENT BY APPLICANT	Examiner Name	Shanon A. Foley
	Attorney Docket Number	129-05

Confirmation No. 1467

GS 03/25/2011

#### **NON-PATENT LITERATURE DOCUMENTS**

		NON-I ATENT ETTENANCE	
Examiner Initial*	Cite No.	REFERENCE Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T 5
/S.F./	27	Prosecution history for related application USSN 10/148,041, filed September 26, 2002, 64 pp., last entry (Office Action) dated October 10, 2006.	
00000000000	28	Prosecution history for related application USSN 10/562,843, filed May 15, 2006, 63 pp., last entry (Amendment) dated November 30, 2010.	
00000	29	Prosecution history for related application USSN 10/566,448, filed January 27, 2006, 142 pp., last entry (Amendment) dated October 27, 2010.	
000000000000000000000000000000000000000	30	Prosecution history for related application USSN 11/352,177, filed February 10, 2006, 129 pp., last entry (Supplemental Amendment) dated October 21, 2010.	
000000000000000000000000000000000000000	31	Prosecution history for related application USSN 11/733,737, filed April 10, 2007, 175 pp., last entry (Amendment) dated December 6, 2010.	
2000000000	32	Prosecution history for related application USSN 12/278,849, filed March 6, 2009, 32 pp., last entry (Office Action) dated December 1, 2010.	
XXXXXXXXXXXX	33	Examination Report for European patent application serial number 04743590.4, dated November 14, 2008, 4 pages.	
***************************************	34	Search Report Corresponding to Great Britain Patent Application No. GB 0317656.7, Date of Search November 25, 2003, 1 page.	
8000000000	35	Search Report Corresponding to Great Britain Patent Application No. GB 0621234.4, Date of Search February 21, 2007, 1 page.	
000000000	36	Search Report Corresponding to International Application No. PCT/GB2004/003263, Date of search October 21, 2004, Mailed May 11, 2004, 3 pages.	
000000000000000000000000000000000000000	37	Search Report corresponding to International Application No. PCT/GB2007/000488, parent of the present application, Date of search May 11, 2007, Date of mailing June 6, 2007, 3 pages.	
300000000000000000000000000000000000000	38	Written Opinion corresponding to International Application No. PCT/GB2007/000488, parent of the present application. Date according to WIPO website August 10, 2008, 8 pages.	
000000000000000000000000000000000000000	39	International Preliminary Report on Patentability, corresponding to International Application No. PCT/GB2007/000488, parent of the present application, Date of completion of report May 5, 2008, 11 pages.	
000000000000000000000000000000000000000	40	ARRIBAS et al. (1986) "The ubiquitin genes in <i>D. melanogaster</i> : transcription and polymorphism" Biochimica et Biophysica Acta 868:119-127.	
-	41	ATKINSON et al. (2000) "Hermes and Other hAT Elements as Gene Vectors in Insects," In; Insect Transgenesis: Methods and Applications, Hadler et al. eds., Boca Raton CRC Press, pp. 219-235.	
BIESCHKE et al. (Jun. 1998) "Doxycycline-Induced Transgene Expression		BIESCHKE et al. (Jun. 1998) "Doxycycline-Induced Transgene Expression During Drosophila Development and Aging," Mol. Gen Genet. 258(6):571-579.	
V	43	BLITVICH et al. (2002) "Developmental- and tissue-specific expression of an inhibitor of apoptosis protein 1 homologue from <i>Aedes triseriatus</i> mosquitoes" Insect Molecular Biology 11(5):431-442.	
/S.F./	44	CABERA et al. (2002) "Expression Pattern of Gal4 Enhancer Trap Insertions Into the	

Examiner	/Shanon Foley/	Date	04/09/2011
Signature	/Shahor Foley/	Considered	04/03/2011

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<b>O</b> 11000 010	
Application Number	10/556,804
Filing Date	January 18, 2006
First Named Inventor	Luke Alphey
Art Unit	1619
Examiner Name	Shanon A. Foley
Attorney Docket Number	129-05

Confirmation No. 1467

GS 03/25/2011

		REFERENCE	
Examiner Initial*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T 5
		bric à brac Locus Generated by P Element Replacement," Genesis 34:62-65.	
/S.F./	45	CHEN et al. (1996) "Apoptotic Activity of REAPER Is Distict from Signaling by the Tumor Necrosis Factor Receptor 1 Death Domain" The Journal of Biological Chemistry 271(42):25735-25737.	
***************************************	46	CHEN et al. (2000) "The Use of Modified Tetracycline Regulatory Expression System with Reduced Basal Level to Develop and In Vivo Biopesticide Expression System," Food Sci Agricult. Chem. 2(4):220-225.	
00000000000	47	ELICK et al. (1997) "Analysis of the Cis-Acting DNA Elements Required for <i>piggyback</i> Transposable Element Excision," Mol. Gen. Genet. 255:605-610.	
60600000000000000000000000000000000000	48	ERNST, U. (1991) "Regulation of Sexual Differentiation in <i>Drosophila</i> : Alternative Splicing of the <i>Transformer</i> Primary Transcript Requires Masking of the Non-Specific Acceptor Site in Females," Inaugural Dissertation, Aus Frankfurt / Main, BRD (ABSTRACT ONLY).	
***************************************	49	ERNST, U. (1991) "Regulation of Sexual Differentiation in <i>Drosophila</i> : Alternative Splicing of the <i>Transformer</i> Primary Transcript Requires Masking of the Non-Specific Acceptor Site in Females," Inaugural Dissertation, Aus Frankfurt / Main, BRD.	
850000000000000000000000000000000000000	50	FUNAGUMA et al. (2005) "The Bmdsx transgene including trimmed introns is sex- specifically spliced in tissues of the silkworm, <i>Bombyx mori</i> ", Journal of Insect Science (online), 5(17):1-6.	
255245325353535353	51	FUSSENEGGER et al. (1997) "Autoregulated Multicistronic Expression Vectors Provide One-Step Cloning of Regulated Product Gene Expression in Mammalian Cells" Biotechnol. Prog. 13:733-740.	
	52	GLOOR et al. (1991) "Targeted Gene Replacement in <i>Drosophila</i> Via P Element-Induced Gap Repair," Science 253:1110-1117.	
	53	GONG et al. (2005) "A dominant lethal genetic system for autocidal control of the Mediterranean fruitfly", Nature Biotechnology 23(4):453-456.	
	54	GONZY-TREBOUL et al. (1995) "Enhancer-Trap Targeting at the Broad-Complex Locus of Drosophila melanogaster," Genes Dev. 9:1137-1148.	
	55	GOSSEN and BUJARD (2001) "Tetracyclines in the control of gene expression in eukaryotes" Tetracyclines in Biology, Chemistry and Medicine, pp. 139-157.	
	56	HANDLER et al. (2001) "A Current Prospective on Insect Gene Transformation," Insect Biochem. Mol. Biol. 31(2):111-128.	
***************************************	57	HANDLER, A. (2002) "Use of <i>piggyback</i> Transposon for Germ-Line Transformation of Insects," Insect Biochem. Mol. Biol. 32:1211-1220.	
	58	HESLIP et al. (1994) "Targeted Transposition at the <i>vestigial</i> Locus of <i>Drosophila melanogaster</i> ," Genetics 138:1127-1135.	
V	59	HOFMANN et al. (1996) "Rapid Retroviral Delivery of Tetracycline-Inducible Genes in a Single Autoregulatory Cassette," Proc. Nat. Acad. Sci. USA 93:5185-5190.	
/S.F./	60	HONDRED et al. (1999) "Use of Ubiquitin Fusions to Augment Protein Expression in Transgenic Plants" Plant Physiology 119:713-723.	

Examiner /Shanon Foley/	Date Considered	04/09/2011
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Substitute for form 1449/PTO, based on PTO/SB/08A and 08B

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011001 1 01 0	
Application Number	10/556,804
Filing Date	January 18, 2006
First Named Inventor	Luke Alphey
Art Unit	1619
Examiner Name	Shanon A. Foley
Attorney Docket Number	129-05

Confirmation No. 1467

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		REFERENCE	
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/S.F./	61	HORN et al. (2000) "Highly sensitive, fluorescent transformation marker for <i>Drosophila</i> transgenesis" Dev Genes Evol 210:623-629.	
	62	HORN et al. (2002) "Fluorescent Transformation Markers for Insect Transgenesis," Insect Biochem. Mol. Biol. 32:1221-1235.	
***************************************	63	HORN et al. (2003) "piggyBac-Based Insertional Metagenesis and Enhancer Detection as a Tool for Functional Insect Genomics," Genetics 163(2):647-661.	
	64	JOHNSON-SCHLITZ et al. (1993) "P-Element-Induced Interallelic Gene Conversion of Insertions and Deletions in <i>Drosophila melanogaster</i> ," Mol Cell Biol. 13:7006-7018.	
***************************************	65	LANKENAU et al. (1996) "Comparison of Targeted-Gene Replacement Frequencies in Drosophila melanogaster at the Forked and White Loci," Mol. Cell Biol. 16:3535-3544.	
000000000000000000000000000000000000000	66	LOUIS et al. (2003) "A Theoretical Model for the Regulation of <i>Sex-Lethal</i> , a Gene That Controls Sex Determination and Dosage Compensation in <i>Drosophila melanogaster</i> ," Genetics 165:1355-1384.	
	67	LOUKERIS et al. (1995) "Introduction of the transposable element <i>Minos</i> into the germ line of <i>Drosophila melanogaster</i> " Proc. Natl. Acad. Sci. USA 92:9485-9489.	
9999999	68	MUNOZ et al. (2004) "The AeAct-4 gene is expressed in the developing flight muscles of female <i>Aedes aegypti</i> ", Insect Molecular Biology 13(5):563-568.	
2000000000	69	PANE et al. (2002) "The <i>transformer</i> gene in <i>Ceratitis capitata</i> provides a genetic basis for selecting and remembering the sexual fate" Development 129:3715-3725.	
90000	70	piggyBac website, http://piggybac.bio.nd.edu/, March 21, 2006, 5 pp.	
aosocoooo	71	RONG et al. (2000) "Gene Targeting by Homologous Recombination in <i>Drosophila</i> ," Science 288:2013-2018.	
женения	72	RONG et al. (2001) "A Targeted Gene Knockout in Drosophila," Genetics 157:1307-1312.	
70000000000	73	RUSS et al. (1996) "Self-Deleting Retrovirus Vectors for Gene Therapy," J. Virol. 70:4927-4932.	
COORCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOC	74	SACCONE et al. (2000) "Sex Determination in Medfly: A Molecular Approach," In; <i>Area-Wide Control of Fruit Flies and Other Pest Insects</i> , Tan, K.H. ed., Penerbit USM, Penag, pp. 491-496.	
20000000000	75	SACCONE et al. (2002) "Sex determination in flies, fruitflies and butterflies" Genetica 116:15-23.	
100000000000000000000000000000000000000	76	SCALI et al. (2005) "Identification of sex-specific transcripts of the <i>Anopheles gambiae</i> doublesex gene", Journal of Experimental Biology 208(19):3701-3709.	
000000000	77	SEPP et al. (1999) "Conversion of <i>lacZ</i> Enhanced Trap Lines to <i>GAL4</i> Lines Using Targeted Transposition in <i>Drosophila melanogaster</i> ," Genetics 151:1093-1101.	
	78	SHOCKETT et al. (1995) "A Modified Tetracycline-Regulated System Provides Autoregulatory, Inducible Gene Expression in Cultured Cells and Transgenic Mice," Proc. Nat. Acad. Sci. USA 92:6522-6526.	
/S.F./	79	STEBBINS et al. (2001) "Tetracycline-Inducible Systems for <i>Drosophila</i> ," Proc. Nat. Acad. Sci. USA 98:10775-10780.	

Examiner /Shanon Foley/	Date Considered	04/09/2011
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#### Sheet 5 of 5

Substitute for form 1449/PTO, based on PTO/SB/08A and 08B	Application Number	10/556,804
	Filing Date	January 18, 2006
THIRD SUPPLEMENTAL	First Named Inventor	Luke Alphey
INFORMATION DISCLOSURE	Art Unit	1619
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/S.F./	80	STEBBINS et al. (2001) "Adaptable Doxycycline-Regulated Gene Expression Systems for <i>Drosophila</i> ," Gene 270:103-111.	
000000000000000000000000000000000000000	81	STEINER et al. (1995) "Homologous Recombination as the Main Mechanism for DNA Integration and Cause of Rearrangements in the Filamentous Ascomycete <i>Ashbya gossypii</i> ," Genetics 140:973-987.	
***************************************	82	WOBUS et al. (1990) "A New Transposable Element in <i>Chironomus thummi</i> ," Mol. General Genet. 222:311-316.	
0000000000	83	WU et al. (2000) "Expression of Highly Controllable Genes in Insect Cells Using a Modified Tetracycline-Regulated Gene Expression System," J. Biotechnol. 80(1):75-83.	
000000000	84	Office Action, dated February 16, 2011, in USSN 10/562,843 (International filing date, July 1, 2004).	
V	85	Office Action, dated February 2, 2011, in USSN 10/566,448 (International filing date, July 28, 2004).	
/S.F./	86	Office Action, dated March 16, 2011, in USSN 11/352,177 (International filing date, February 12, 2007).	

Examiner Signature	/Shanon Foley/	Date Considered	04/09/2011	
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